

P **Capsicum annuum**

Common Name(s)

Bell Pepper, Cherry Pepper, Cone Pepper, Green Pepper, Paprika, Sweet Pepper

How Used

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	Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	1,1-DIETHOXY-2-METHYLPROPANE	Fruit	--	--			
0	1,1-DIETHOXY-3-METHYLBUTANE	Fruit	--	--			
0	1-HEXANOL	Fruit	--	--			
0	1-HYDROXY-PROPAN-2-ONE	Fruit	--	--			
0	1-METHYL PYRROLE-KETONE	Fruit	--	--			
0	1-O-CAFFEOYL-BETA-D-GLUCOSE	Fruit	--	--			
0	1-O-FERRULOYL-BETA-D-GLUCOSE	Fruit	--	--			
0	13-CIS-CAPSANTHIN	Fruit	--	205			
0	13-CIS-ZEAXANTHIN	Fruit	2	43			
0	15-CIS-ZEAXANTHIN	Fruit	--	9			
0	2,3,5-TRIMETHYL PYRAZINE	Fruit	--	--			

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	2,3-BUTANEDIOL	Fruit	--	--		
0	2,3-DIMETHYL-5-ETHYLPYRAZINE	Fruit	--	--		
0	2,3-DIMETHYL-PYRAZINE	Fruit	--	--		
0	2-BUTANONE	Fruit	--	--		
0	2-HEXANOL	Fruit	--	--		
0	2-HEXANONE	Fruit	--	--		
0	2-HYDROXY-3-METHYL-CYCLOPENT-2-EN-1-ONE	Fruit	--	--		
0	2-METHOXY-3-ISOBUTYL-PYRAZINE	Fruit	--	--		
0	2-METHYL-5-ETHYLPYRAZINE	Fruit	--	--		
0	2-METHYL-BUTAN-1-OL	Fruit	--	--		
0	2-METHYL-BUTAN-2-OL	Fruit	--	--		
0	2-METHYL-BUTANAL	Fruit	--	--		
0	2-METHYL-BUTYRIC-ACID	Fruit	--	--		
0	2-METHYL-PENTAN-2-OL	Fruit	--	--		
0	2-METHYL-PROPANAL	Fruit	--	--		
0	2-METHYL-PROPIONIC-ACID	Fruit	--	--		
0	2-PENTYL-FURAN	Fruit	--	--		
0	2-PENTYL PYRIDINE	Fruit	--	--		
0	24-(R)-ETHYL-LOPHENOL	Seed	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	24-DIHYDROLANOSTEROL	Seed	--	--		
0	24-METHYL-LANOST-9(11)-EN-3-BETA-OL	Seed	--	--		
0	24-METHYL-LOPHENOL	Seed	--	--		
5	24-METHYLENE-CYCLOARTANOL	Seed	--	--		
0	3'-O-MYRISTOYLcapsanthin	Fruit	--	--		
0	3,6-EPOXIDE-5-HYDROXY-5,6-DIHYDRO-ZEAXANTHIN	Fruit	--	--		
0	3-(SEC-BUTYL)-2-METHOXYPYRAZINE	Fruit	--	--		
0	3-HEXANOL	Fruit	--	--		
0	3-HYDROXY-ALPHA-CAROTENE	Fruit	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
0	3-ISOBUTYL-2-METHOXYPYRAZINE	Fruit	--	--		
0	3-ISOPROPYL-2-METHOXYPYRAZINE	Fruit	--	--		
0	3-METHYL-1-PENTYL-3-METHYL-BUTYRATE	Fruit	--	--	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.	
0	3-METHYL-BUTANAL	Fruit	--	--		
0	3-METHYL-BUTYRIC-ACID	Fruit	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	3-METHYL-CYCLOPENT-2-EN-1-ONE	Fruit	--	--		
0	3-METHYL-PENTAN-3-OL	Fruit	--	--		
0	31-NOR-LANOST-8-EN-3-BETA-OL	Seed	--	--		
0	31-NOR-LANOST-9(11)-EN-3-BETA-OL	Seed	--	--		
0	31-NOR-LANOSTEROL	Seed	--	--		
0	31-NORCYCLOARTANOL	Seed	--	--		
0	4-ALPHA-14-ALPHA-24-TRIMETHYL-CHOLESTA-8(24)-DIEN-3-BETA-OL	Seed	--	--		
0	4-ALPHA-24-DIMETHYL-CHOLESTA-7,24-DIEN-3-BETA-OL	Seed	--	--		
0	4-ALPHA-METHYL-24-ETHYL-CHOLESTA-7,24-DIEN-3-BETA-OL	Seed	--	--		
0	4-ALPHA-METHYL-5-ALPHA-CHOLEST-8(14)-EN-3-BETA-OL	Seed	--	--		
0	4-ETHYL-GUAIACOL	Fruit	--	--		
0	4-METHYL-1-PENTYL-2-METHYL-BUTYRATE	Fruit	--	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	4-METHYL-3-PENTEN-2-ONE	Fruit	--	--		
0	4-METHYL-GUAIACOL	Fruit	--	--		
0	4-METHYL-HEPTADECANE	Fruit	--	--		
0	4-METHYL-HEXADECANE	Fruit	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	4-METHYL-PENTANOIC-ACID	Fruit	--	--		
0	4-METHYLPENTADECANE	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	4-METHYLTRADECANE	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	4-METHYLTRIDECA	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	5,6-DIHYDROXY-5,6-DIHYDRO-ZEAXANTHIN	Fruit	--	--		
0	5-ALPHA-CHOLEST-8(14)-EN-3-BETA-OL	Seed	--	--		
0	5-HYDROXY-CAPSANTHIN-3,6-EPOXIDE	Fruit	--	--		
0	5-HYDROXY-CAPSANTHIN-5,6-EPOXIDE	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	5-HYDROXYCAPSANTHIN	Fruit	--	--		Jim Duke's personal files.
0	5-METHYL-2-FURFURAL	Fruit	--	--		
0	5-METHYL-FURFURAL	Fruit	--	--		
0	9-CIS-CAPSANTHIN	Fruit	0.5	140		
0	9-CIS-ZEAXANTHIN	Fruit	2	32		
16	ACETIC-ACID	Fruit	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	ACETOIN	Fruit	--	--		
19	ACETYL-CHOLINE	Pericarp	--	15	-1	
19	ACETYL-CHOLINE	Seed	--	105	0.5835650056778248	
0	ACETYLFURAN	Fruit	--	--		
3	ALANINE	Fruit	350	4774	0.41916448807939843	
7	ALPHA-CAROTENE	Fruit	0.2	20	2.436266539567189	
0	ALPHA-COPAENE	Fruit	--	--		
2	ALPHA-CRYPTOXANTHIN	Plant	--	--		
2	ALPHA-CRYPTOXANTHIN	Fruit	1	25		
15	ALPHA-LINOLENIC-ACID	Fruit	220	3001	0.20656945687815753	USDA's Ag Handbook 8 and sequelae)
11	ALPHA-PHELLANDRENE	Fruit	--	--		
28	ALPHA-PINENE	Fruit	--	--		
23	ALPHA-TERPINEOL	Fruit	--	--		
0	ALPHA-THUJENE	Fruit	--	--		
32	ALPHA-TOCOPHEROL	Fruit	22	284	3.249804110897653	
5	ALUMINUM	Fruit	--	--		
0	AMMONIA	Fruit	382	382	1	
0	AMMONIA(NH3)	Fruit	--	382		
1	ANTHERAXANTHIN	Fruit	0.5	165		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
4	APIIN	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	ARACHIDIC-ACID	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
14	ARGININE	Fruit	410	5592	0.34202092362066183	USDA's Ag Handbook 8 and sequelae)
2	ARSENIC	Fruit	0.004	0.015	-0.5177009203400424	
112	ASCORBIC-ACID	Fruit	230	20982	1.0201086559741077	
0	ASH	Fruit	13416	52000	-0.12076969079664142	
2	ASPARAGINE	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
3	ASPARTIC-ACID	Fruit	1200	16504	0.8336382798513058	
0	AUROCHROME	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	AUROXANTHIN-1	Fruit	--	0.5		
0	AUROXANTHIN-2	Fruit	--	0.5		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	BARIUM	Fruit	2	8	-0.8930759463364307	
1	BEHENIC-ACID	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
24	BENZALDEHYDE	Fruit	--	--		
9	BETA-AMYRIN	Seed	--	--		
0	BETA-APO-8'-CAROTENAL	Fruit	--	--		
53	BETA-CAROTENE	Fruit	25	95	0.032832659233001486	
0	BETA-CAROTENE-EPOXIDE	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	BETA-CRYPTOXANTHIN	Fruit	1	510	1	
13	BETA-PINENE	Fruit	--	--		
47	BETA-SITOSTEROL	Plant	--	--		
47	BETA-SITOSTEROL	Fruit	60	1190	0.7692772928142692	
14	BETAINE	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
4	BORON	Fruit	1	18	0.6859947425378856	
0	BROMINE	Fruit	0.1	111	3.331516857208814	ACTA AGRIC SCAND SUPPL 22: 1980

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	BUTANAL-2-METHYL	Fruit	--	--		
0	BUTANAL-3-METHYL	Fruit	--	--		
0	BUTANE-1,3-DIOL	Fruit	--	--		
0	BUTANE-2,3-DIOL	Fruit	--	--		
3	CADMIUM	Fruit	0.005	0.33	0.32622088213907097	
102	CAFFEIC-ACID	Fruit	11	11	-0.3368770543074836	
28	CALCIUM	Fruit	431	1670	-0.5045082674838655	
2	CAMPESTEROL	Fruit	20	530	3.841640034312409	
9	CAMPHENENE	Fruit	--	--		
44	CAPSAICIN	Fruit	100	4000	-1	
44	CAPSAICIN	Tissue Culture	0.59	590		
44	CAPSAICIN	Resin, Exudate, Sap	634000	634000		
2	CAPSANTHIN	Fruit	1	2820		
0	CAPSANTHIN-3,6-EPOXIDE	Fruit	--	165		
0	CAPSANTHIN-5,6-EPOXIDE	Fruit	--	185		
0	CAPSANTHONE	Fruit	--	45		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	CAPSIAMIDE	Fruit	20	200		Chemical Constituents of Oriental Herbs (3 diff. books)
0	CAPSIAMIDE	Plant	--	--		
1	CAPSIANOSIDE-A	Fruit	33	250		
0	CAPSIANOSIDE-B	Fruit	2	18		
1	CAPSIANOSIDE-C	Fruit	35	103		
1	CAPSIANOSIDE-D	Fruit	21	38		
0	CAPSIANOSIDE-E	Fruit	15	--		
0	CAPSIANOSIDE-F	Fruit	5	--		
1	CAPSIANOSIDE-I	Fruit	18	18		
0	CAPSIANOSIDE-II	Fruit	43	138		
0	CAPSIANOSIDE-III	Fruit	15	105		
0	CAPSIANOSIDE-IV	Fruit	9	9		
0	CAPSIANOSIDE-V	Fruit	2	2		
0	CAPSIANSIDE-A	Fruit	300	300		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
0	CAPSICOSIDE	Leaf	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	CAPSICOSIDE	Plant	--	--		
0	CAPSICOSIDE	Seed	--	--		
0	CAPSICOSIDE A-2	Root	--	--		
0	CAPSICOSIDE A-3	Root	--	--		
0	CAPSICOSIDE B-2	Root	--	--		
0	CAPSICOSIDE C-2	Root	--	--		
0	CAPSICOSIDE C-3	Root	--	--		
0	CAPSICOSIDE E	Root	--	--		
0	CAPSICOSIDE-A-1	Root	530	530		
0	CAPSICOSIDE-B-1	Root	620	620		
0	CAPSICOSIDE-C-1	Root	600	600		
0	CAPSICOSIN	Plant	--	--		
3	CAPSIDIOL	Fruit	29	29		
3	CAPSIDIOL	Tissue Culture	--	--		
0	CAPSOCHROME	Fruit	--	--		
0	CAPSOLUTEIN	Fruit	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
1	CAPSORUBIN	Fruit	--	260		
0	CARBOHYDRATES	Fruit	175956	682000	-0.539466174742496	
0	CARNAUBIC-ACID	Seed	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	CAROTENOIDS	Fruit	115	9945	1.9104197137381895	
31	CARYOPHYLLENE	Fruit	--	--		
77	CHLOROGENIC-ACID	Fruit	--	--		
77	CHLOROGENIC-ACID	Leaf	--	--		
21	CHLOROPHYLL	Fruit	--	195	0.22124854097919466	
20	CHOLINE	Pericarp	297	297	-1	
20	CHOLINE	Seed	360	360	-1.2352144104006983	
24	CHROMIUM	Fruit	--	--	-0.5076332138804538	
18	CINNAMIC-ACID	Tissue Culture	--	--		
0	CIS-13'-CAPSANTHIN	Fruit	--	--		
0	CIS-9'-CAPSANTHIN	Fruit	--	--		
0	CIS-9,10-DIHYDRO-CAPSENONE	Tissue Culture	1	1		
0	CIS-BETA-CAROTENE	Fruit	1	60		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	CIS-CRYPTOXANTHIN	Fruit	--	65		
23	CITRIC-ACID	Fruit	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
1	CITROSTADIENOL	Seed	--	--		
0	CITROXANTHIN	Fruit	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
0	CITRULLIN	Fruit	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
2	COBALT	Fruit	4	15.1	1.2928795988960315	
12	COPPER	Fruit	0.5	20	0.5588968590110831	
0	CRYPTOCAPSIN	Fruit	0.2	75		
2	CRYPTOXANTHIN	Fruit	--	--		
0	CUCURBITACHROME	Fruit	--	400		
0	CUCURBITAXANTHIN-A	Fruit	1	610		
0	CUCURBITAXANTHIN-B	Fruit	--	110		
0	CYCLOARTANOL	Seed	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
7	CYCLOARTENOL	Seed	--	--		
3	CYCLOEUCALENOL	Seed	--	--		
0	CYCLOHEXANONE	Fruit	--	--		
0	CYCLOPENTANOL	Fruit	--	--		
0	CYCLOVIOLAXANTHIN	Fruit	--	70		
3	CYNAROSIDE	Leaf	--	--		
2	CYSTINE	Fruit	160	2182	1.2003774411002974	USDA's Ag Handbook 8 and sequelae)
0	DECANOIC-ACID-VANILLYLAMIDE	Fruit	1	68		USDA's Ag Handbook 8 and sequelae)
0	DEHYDROASCORBIC-ACID	Fruit	20000	20000	1.725773620676355	
8	DELTA-3-CARENE	Fruit	--	--		
0	DI-N-PROPYL-AMINE	Fruit	0.3	0.3		
1	DIHYDROCAPSAICIN	Fruit	75	1628		
1	DIHYDROCAPSAICIN	Resin, Exudate, Sap	328000	318000		
1	DIHYDROCAPSAICIN	Tissue Culture	--	--		
0	DIMETHOXY-BENZYL METHYLOCTAMIDE	Resin, Exudate, Sap	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	DIN-N-PROPYL-AMINE	Fruit	--	0.3		
0	EO	Fruit	1290	5000	-0.7227768403857732	
1	EPSILON-CAROTENE	Fruit	--	--		
0	ERIODICTIN	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	ETHYL-3-METHYLBUTYRATE	Fruit	--	--		
6	ETHYL-ACETATE	Fruit	--	--		
76	EUGENOL	Fruit	--	--		
0	FAT	Fruit	2000	144000	0.4586083273000108	
0	FAT	Seed	100000	150000	-0.6077877171137942	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
15	FIBER	Fruit	12000	351000	1.975278288083942	
0	FIBER(CRUDE)	Fruit	--	258000	1.530775468007022	
0	FIBER(DIETARY)	Fruit	--	482000	1.7052471143322203	
0	FLUORINE	Fruit	0.05	1	-0.3491724883530834	ACTA AGRIC SCAND SUPPL 22: 1980
15	FOLACIN	Fruit	--	3	0.3894543457310426	USDA's Ag Handbook 8 and sequelae)

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	FOLIAXANTHIN	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	FUNKIOSIDE	Root	--	--		
0	FUNKIOSIDE C	Root	--	--		
0	GALACTOSAMINE	Fruit	--	--		
1	GALACTOSE	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	GAMMA-BUTYROLACTONE	Fruit	--	--		
11	GAMMA-TERPINENE	Fruit	--	--		
1	GLUCOSAMINE	Fruit	--	--		
7	GLUCOSE	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
8	GLUTAMIC-ACID	Fruit	1120	15277	0.15870222657295222	USDA's Ag Handbook 8 and sequelae)
0	GLUTAMINASE	Fruit	--	--		
12	GLYCINE	Fruit	310	4228	0.24116126345948113	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	GRAMISTEROL	Seed	--	--		
0	GROSSAMIDE	Root	3	3		
18	GUAIACOL	Fruit	--	--		
0	HENEICOSANE	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	HEPTADECANE	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
31	HESPERIDIN	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	HEXADECANE	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	HEXAN-1-AL	Fruit	--	--		
5	HEXANAL	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
2	HEXANOIC-ACID	Fruit	--	--		
7	HISTIDINE	Fruit	170	2319	0.4251522813518472	
0	HOMOCAPSAICIN	Fruit	2	90		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	HOMOCAPSAICIN	Resin, Exudate, Sap	3000	3000		
0	HOMODIHYDROCAPSAICIN	Fruit	2	90		
0	HOMODIHYDROCAPSAICIN	Resin, Exudate, Sap	--	--		
0	HYDROXY-ALPHA-CAROTENE	Fruit	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
0	HYDROXY-BENZOIC-ACID-4-BETA-D-GLUCOSIDE	Fruit	--	--		
6	IRON	Fruit	4	14	-0.47195395604815815	
0	ISOHEXYL-ISOCAPROATE	Fruit	--	--	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.	
3	ISOLEUCINE	Fruit	270	3683	0.013574129648896245	USDA's Ag Handbook 8 and sequelae)
0	KARPOXANTHIN	Fruit	0.5	150		
4	L-ASPARAGINASE	Fruit	--	--		
0	L-ASPARARGINASE	Fruit	--	--		
0	LANOST-8-EN-3-BETA-OL	Seed	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	LANOSTENOL	Plant	--	--	J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.	
1	LANOSTEROL	Seed	--	--		
0	LATOXANTHIN	Fruit	1	25		
0	LEAD	Fruit	0.004	2	-0.3720390542711243	
2	LEUCINE	Fruit	440	6002	0.19151009080138937	USDA's Ag Handbook 8 and sequelae)
3	LIGUSTRAZINE	Fruit	--	--		
60	LIMONENE	Fruit	--	--		
0	LINALOL	Fruit	--	--		
53	LINALOOL	Fruit	--	--		
27	LINOLEIC-ACID	Fruit	2190	29871	0.06603462603214637	
0	LINOLENIC-ACID	Fruit	--	--		
11	LITHIUM	Fruit	0.284	0.4	-0.5556718414322324	
0	LOPHENOL	Seed	--	--		
21	LUPEOL	Seed	--	--		
15	LUTEIN	Fruit	3.4	50	3.4855553704728424	
78	LUTEOLIN	Fruit	11	11		
0	LUTEOLIN-7-O-BETA-APIOGLUCOSIDE	Leaf	--	--		
0	LUTEOLIN-7-O-BETA-D-DIGLUCOSIDE	Leaf	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	LUTEOLIN-7-O-BETA-D-GLUCOSIDE	Leaf	--	--		
0	LUTEOLIN-7-O-BETA-DIGLUCOSIDE	Leaf	--	--		
0	LUTEOXANTHIN-1	Fruit	2	40		
0	LUTEOXANTHIN-2	Fruit	7	110		
4	LYSINE	Fruit	380	5183	0.27674261896008856	USDA's Ag Handbook 8 and sequelae)
65	MAGNESIUM	Fruit	604	2340	0.0973640583480707	
1	MALONIC-ACID	Fruit	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
1	MALONIC-ACID	Leaf	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
11	MALTOL	Fruit	--	--		
14	MANGANESE	Fruit	0.4	1.4	-0.39430607258501055	
0	MARGARIC-ACID	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
1	MERCURY	Fruit	0.001	0.001	-0.7865389313824043	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
15	METHIONINE	Fruit	100	1364	0.49932054232266115	USDA's Ag Handbook 8 and sequelae)
2	MOLYBDENUM	Fruit	--	15	2.521090498809608	
0	MUTATOXANTHIN-1	Fruit	--	40		
0	MUTATOXANTHIN-2	Fruit	0.5	295		
22	MYRCENE	Fruit	--	--		
34	MYRICETIN	Fruit	1	1	-0.6882411791853533	
6	MYRISTIC-ACID	Fruit	10	136	-0.262727790139001	
0	N-(13-METHYLtetradecyl)ACETAMIDE	Fruit	300	400		
0	N-CIS-FERULOYL-TYRAMINE	Root	2	2		
0	N-HEXANAL	Fruit	--	--		
0	N-METHYL-ANILINE	Fruit	13.1	13.1		
0	N-NITROSO-DIMETHYLAMINE	Fruit	--	--		
0	N-NITROSO-PYRROLIDINE	Fruit	--	--		
0	N-PENTYL-AMINE	Fruit	3	3	0.9999999999999997	
0	N-PROPYL-AMINE	Fruit	2.3	2.3		
0	N-TRANS-FERULOYL-OCTOPAMINE	Root	1	2		
0	N-TRANS-FERULOYL-TYRAMINE	Root	12	12		
0	N-TRANS-P-COUMAROYL-OCTOPAMINE	Root	1	1		
0	N-TRANS-P-COUMAROYL-TYRAMINE	Root	2	2		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	N-VANILLYL-N-NONAMIDE	Resin, Exudate, Sap	--	--		
1	NAPHTHALENE	Fruit	--	--		
0	NEO-BETA-CAROTENE	Plant	--	--		
2	NEOXANTHIN	Fruit	--	18	1	
0	NH3	Fruit	382	382		
39	NIACIN	Fruit	21	80	0.25803272913297753	
3	NICKEL	Fruit	0.05	5.5	0.893202335058218	
0	NITROGEN	Fruit	1900	23330	0.6105662880376689	ACTA AGRIC SCAND SUPPL 22: 1980
0	NONADECANE	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	NONANOIC-ACID-VANILLYLAMIDE	Fruit	2	45		
0	NONIVAMIDE	Resin, Exudate, Sap	--	--		
0	NORCAPSAICINE	Fruit	--	--		
0	NORDIHYDROCAPSAICIN	Fruit	15	335		
0	NORDIHYDROCAPSAICIN	Resin, Exudate, Sap	31000	31000		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
6	O-CRESOL	Fruit	--	--		
0	OBTUSIFOLIOL	Seed	--	--		
0	OCTANE	Fruit	--	--		
5	OCTANOIC-ACID	Fruit	--	--		
18	OLEIC-ACID	Fruit	270	3582	-0.4531374874534312	
18	OLEIC-ACID	Seed	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
9	OXALIC-ACID	Fruit	257	1171	-0.24177730392475322	Watt, J.M. and Breyer-Brandwijk, M.G. 1962. The Medicinal and Poisonous Plants of Southern and Eastern Africa. E. & S. Livingstone, Ltd. Edinburg & London. 1457 pp.
0	P-AMINO-BENZALDEHYDE	Root	6	6		
25	P-COUMARIC-ACID	Fruit	79	79	-0.3401508451648206	
8	P-CRESOL	Fruit	--	--		
16	P-CYMENE	Fruit	--	--		
0	P-XYLENE	Fruit	--	--		
13	PALMITIC-ACID	Fruit	500	6820	-0.2593626333971022	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
13	PALMITIC-ACID	Seed	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	PALMITOLEIC-ACID	Fruit	30	409	-0.27067772308159505	USDA's Ag Handbook 8 and sequelae)
11	PANTOTHENIC-ACID	Fruit	--	5	-0.8358850147292255	USDA's Ag Handbook 8 and sequelae)
0	PENTADECANE	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
1	PENTADECANOIC-ACID	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
26	PHENOL	Fruit	--	--		
7	PHENYLALANINE	Fruit	260	3546	0.07637278495697446	USDA's Ag Handbook 8 and sequelae)
0	PHOSPHATIDYL-GLYCEROL	Fruit	--	--		
0	PHOSPHATIDYL-GLYCEROL	Leaf	--	--		
0	PHOSPHODIESTERASE	Tissue Culture	--	--		
4	PHOSPHORUS	Fruit	784	3040	-0.053456578480128816	
5	PHYLLOQUINONE	Fruit	0.02	0.06	-0.22359887323159108	
0	PHYTOENE	Fruit	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	PHYTOFLUENE	Fruit	--	--		
2	PHYTOSTEROLS	Fruit	90	1750	1.0365836878419545	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
10	PIPERIDINE	Fruit	5.2	5.2	-1.4134560119817663	
0	PORPHOBILINOGEN-OXYGENASE	Leaf	--	--		
14	POTASSIUM	Fruit	3483	13500	-0.3907443973119217	
0	PROLINE	Fruit	370	5047	0.28544185332563193	
6	PROPIONIC-ACID	Fruit	--	--		
0	PROTEIN	Fruit	35862	139000	0.3954798997595693	
28	PULEGONE	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
3	PYRIDINE	Fruit	--	--		
1	PYRROLIDINE	Fruit	1.4	1.4		
15	RIBOFLAVIN	Fruit	--	19	2.9963413996709614	
6	RISHITIN	Tissue Culture	--	--		
0	RUBIDIUM	Fruit	0.38	10	-0.6798204139542442	ACTA AGRIC SCAND SUPPL 22: 1980

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
1	RUBIXANTHIN	Fruit	--	--		
87	RUTIN	Fruit	--	3874	-0.21269509917042856	Varnaite, R. 1988. Rutin Content in Capsicum, Capsella, Urtica, Primula, Lepidium, Lactuca, Brassica, Anethum, Beta, Petroselinum, Allium Genera Representatives. Liet Tsr Mokslu Akad Darb Ser C, 4: 29-32.
5	SABINENE	Fruit	--	--		
7	SALICYLATES	Fruit	6	100	-0.04999562500039605	
44	SCOPOLETIN	Fruit	--	--		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
60	SELENIUM	Fruit	0.001	0.002	-0.38569128420884563	
1	SERINE	Fruit	340	4638	0.351286486996007	
4	SILICON	Fruit	--	--		
3	SILVER	Fruit	0.071	0.1	-0.45980626251045253	
0	SKATOLE-PYRROLO-OXYGENASE	Leaf	--	--		
1	SODIUM	Fruit	152	590	-0.12800174907287107	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
5	SOLANIDINE	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
26	SOLANINE	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
26	SOLANINE	Leaf	500	500	-1	
18	SOLASODINE	Fruit	--	--		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
8	STEARIC-ACID	Fruit	160	2180	-0.1346481609392678	USDA's Ag Handbook 8 and sequelae)
8	STEARIC-ACID	Seed	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
12	STIGMASTEROL	Fruit	10	180	1.3242602946608402	
0	STRONTIUM	Fruit	2	12	-0.9119954010869392	
0	SUGARS	Fruit	18060	70000	-0.5952549612598248	
0	SULFOQUINOVOSYL-DIACYL-GLYCEROL	Fruit	--	--		
0	SULFOQUINOVOSYL-DIACYL-GLYCEROL	Leaf	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
14	SULFUR	Fruit	190	2440	0.7136799213892123	
23	TERPINEN-4-OL	Fruit	--	--		
9	TERPINOLENE	Fruit	--	--		
0	TETRADECANE	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
22	TETRAMETHYL-PYRAZINE	Fruit	--	--		
31	THIAMIN	Fruit	1	15	1.237464316955986	USDA's Ag Handbook 8 and sequelae)
0	THIAMINE	Fruit	1	4.2	0.35249803327962026	
4	THREONINE	Fruit	310	4228	0.5031132526815597	
4	TIN	Fruit	1.3	5	-0.3575360694452028	
0	TITANIUM	Fruit	0.355	16	-0.39196677622477016	
93	TOCOPHEROL	Fruit	24	24	-0.48930868112103443	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
1	TOLUENE	Fruit	--	--		
15	TRIGONELLINE	Seed	0.6	0.6	-0.46893261236098505	
29	TRYPTOPHAN	Fruit	110	1500	0.911613449940336	USDA's Ag Handbook 8 and sequelae)

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0 TRYPTOPHAN-PYRROLO-OXYGENASE	Leaf	--	--			
8 TYROSINE	Fruit	180	2455	0.01503141767564613	USDA's Ag Handbook 8 and sequelae)	
3 VALINE	Fruit	360	4910	0.09429171805261376		
0 VANILLIC-ACID-4-BETA-D-GLUCOSIDE	Fruit	--	--			
0 VANILLOYL-GLUCOSE	Fruit	--	--			
0 VANILLYL-CAPROYLAMIDE	Fruit	--	--			
0 VANILLYL-DECANAMIDE	Fruit	--	--			
0 VANILLYL-OCTANAMIDE	Fruit	--	--			
2 VIOLAXANTHIN	Fruit	2	205			
0 VIT-B-6	Fruit	2	22	2.3189606682135615	USDA's Ag Handbook 8 and sequelae)	
0 WATER	Fruit	742000	937000	0.7236282753600269		
3 XANTHOPHYLL	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.	
0 XANTHOPHYLL-EPOXIDE	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
3	XYLOSE	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
5	ZEAXANTHIN	Fruit	1.4	1525	1	
0	ZETA-CAROTENE	Fruit	--	--		
77	ZINC	Fruit	2	7.7	-0.6799873909506287	
0	ZIRCONIUM	Fruit	1.4	2	-0.33411717815403996	